TABLE L-1 Unit Costs

Item		Unit Cost	Units	Source/Comments
Permitting	\$	35,000	LS	Allowance
Institutional Controls	\$	25,000	LS	Allowance
LNAPL collection and recycling/disposal	\$	5,000	yr	Potlatch estimate; current system
LNAPL collection and recycling/disposal	\$	7,500	yr	Potlatch estimate; new system
Site inspection	\$	2,000	yr	Estimate
Site maintenance	•	,	yr	Varies by alternative
Groundwater monitoring	\$	10,000	yr	2x/yr for 6 wells at \$800/well, rounded
Annual reporting (Alts A & B)	\$	5,000	yr	Estimate
Annual reporting (Alts C - G)	\$	10,000	yr	Estimate
Construction management and quality assurance	\$	30,000	mo	Estimate
Soil Washing - fixed costs	\$	520,000	LS	Vendor quote
Soil Washing - variable cost, small qty	\$	55.00	су	Vendor quote
Soil Washing - variable cost, med qty	\$	43.00	су	Vendor quote
Soil Washing - variable cost, large qty		30.00	су	Extrapolated from vendor quote
On-site landfarming	\$ \$	30.00	су	Preliminary estimate
Temporary facilities	\$	6,000	month	Clearcreek Contractors LDA closure bid
Earthworks equipment mob/demob	\$	25,000	LS	Estimate
Barrier / Collector Trench equipment mob/demob	\$	50,000	LS	Estimate
Construction entrance		15.00	sy	WSDOT Unit Bids
Silt fence	\$ \$	5.00	lf	Clearcreek Contractors LDA closure bid
Silt curtain	\$	15.00	ıı If	Estimate
	\$	1,000		Estimate
Fence gate			ea	
Cofferdam and sediment control for 350-ft containment	\$	50,000	LS	Estimate
Cofferdam and sediment control for 1100-ft containment	\$ \$ \$	100,000	LS	Estimate
Chain-link fencing	\$	25.00	lf	FenceCo WMW estimate
Excavate and load riprap	\$	10.00	су	Means 31 23 23.15 6000
Haul riprap or soil to/from stockpile	\$	4.00	су	Means 31 23 23.18 0310
Geosynthetics - remove & fold	\$	0.05	sf	Estimate
Offsite landfill disposal (haul & dispose)	\$	81.52	ton	Estimate
Excavate and load soil	\$	5.00	су	Estimate
Excavate and load contaminated river sediment	\$	25.00	су	Estimate
Spread and compact soil	\$	1.50	су	Means 31 23 23.14 3000, 31 23 23.23 5700
Excavate, haul on-site, plance & compact soil	\$	10.50	су	sum of other unit costs
Clean soil from off-site	\$ \$ \$	25.00	су	Estimate, placed
Excavate collector trench	\$	20.00	су	Estimate
Excavate cutoff wall trench	\$	15.00	су	Estimate
Slurry / Revert Materials in Trench	\$	250.00	су	Means 31 56 23.20 0050 and 0100 materials
Gravel (trench, etc.)	\$	30.00	су	Estimate
Geotextile	\$	0.40	sf	Estimate
Trench cover, low permeability	\$ \$	40.00	су	Estimate
LNAPL recovery wells	\$	500	ea	Estimate
Place riprap	\$	25.00	су	Means 31 37 13.10 0100 w/o Matls
Riprap from off-site	\$	65.00	сý	Means 31 37 13.10 0370 Matls + Placement
Topsoil from off-site	\$	40.00	сý	Estimate
Hydroseeding	\$	2,500	acre	Estimate
Foundation demolition	\$	112.50	су	Means 02 41 16.17 1140
Roadway - subgrade preparation	\$	0.50	sf	Estimate
Roadway - gravel base course	\$	40.00	су	Means 32 11 23.23 1523
Roadway - bituminous stabilized top course		80.00	су	Means 32 11 26.19 1100
Roadway - 2-inch asphalt pavement layer	\$ \$	1.00	sf	Means 32 12 16.13 0380 plus 30% for delive
Liner for soil storage area	\$	3.00	sf	Estimate
Labor (fully burdened)	\$	30.00	hr	Estimate
` ,	\$ \$			
Backhoe tractor		250 500	day	Estimate
Steam cleaning equipment (incl generator)	Φ	500	day	Estimate
LNAPL collection system in ditch	\$ \$ \$	100	lf	Estimate
River boom support posts		1,000	ea	Estimate
River boom fabric, incl. reinforcemnt and support	\$	5.00	sf	Estimate, incl installation
	\$	1,000	су	Estimate
Concrete, including forms, reinforcement Sheet Piling	\$	15.00	sf	Means 31 41 16.10 1200

## NOTES:

Means = RS Means Heavy Construction Cost Data 2007

